



Cooperative Monitoring Center
Sandia National Laboratories
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SANDIA NATIONAL LABORATORIES
ALBUQUERQUE, NEW MEXICO

Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000.



TRAINING COURSE ON COOPERATIVE MONITORING

MARCH 17-21, 2003

SPONSORED BY
SANDIA NATIONAL LABORATORIES



CMC TRAINING COURSE ON COOPERATIVE MONITORING

ABOUT THE TRAINING COURSE

The Training Course on Cooperative Monitoring provides an overview of the technologies and procedures associated with cooperative monitoring. The course is taught by expert staff from Sandia National Laboratories and outside organizations. We show how cooperative monitoring, by applying technology to promote regional security, lessens the tensions that might motivate countries to acquire weapons of mass destruction. We discuss the relationship between cooperative monitoring and other means of ensuring security.

The introduction to cooperative monitoring includes examples of its past, present and future implementation. Technologies that support cooperative monitoring are surveyed with emphasis on their practical applications. A team exercise gives participants an opportunity to apply the information learned in a practical simulation. Course notes are provided.

The course is organized by George Baldwin. He can be reached at: (505) 284-5054, gtbaldw@sandia.gov.

WHO SHOULD ATTEND?

The course is intended for government officials and staff involved in international negotiations and policy-making for arms control and nonproliferation, especially those unfamiliar with monitoring systems and technology. Related contractor and non-governmental organizations are also invited.

Selected organizations are invited to nominate candidates to participate in the course. Other interested individuals may call the CMC for information concerning openings.

REGISTRATION AND ARRANGEMENTS

Space in the course is limited. No fee is charged for the course, but all participants are expected to attend the full week and they must register. Registration requests should be received by the CMC as soon as possible, but no later than February 21, 2003; non-U.S. citizens please respond by February 3, 2003. Please register online at <http://www.cmc.sandia.gov>; click on "About the CMC", "Workshops and Training." Participants are responsible for arranging their own travel, food and lodging. Questions regarding logistics should be directed to Martha Haines: (505) 284-6580, Fax: 845-8700, mhaines@sandia.gov.

ABOUT THE COOPERATIVE MONITORING CENTER

The Cooperative Monitoring Center assists political and technical experts from around the world to acquire the technology-based tools they need to assess, design, analyze and implement nonproliferation, arms control and other security measures. The CMC offers workshops and training courses, conducts research, and collaborates to conduct field experiments worldwide, with particular interest in efforts in Northeast Asia, South Asia, and the Middle East.

PRELIMINARY AGENDA

MONDAY, MARCH 17

INTRODUCTION

- Welcome to Sandia and the CMC
- Expectations and Goals of the Course
- What is Cooperative Monitoring?
- Precedents for Cooperative Monitoring: Overview and Example
- Introduction to the Course Exercise

TECHNOLOGY SESSION I

- Ground Sensors
- Video Surveillance
- Tamper Indication
- Access Control & Delay

TUESDAY, MARCH 18

TECHNOLOGY SESSION II

- Tools for On-Site Inspections
- Chemical and Biological Monitoring
- Missile Monitoring
- Environmental Monitoring

WEDNESDAY, MARCH 19

TECHNOLOGY SESSION III

- Fissile Material Control and Nuclear Monitoring
- Nuclear Environmental Monitoring
- Unattended and Remote Monitoring
- Seismic Monitoring
- Satellite Imagery and Aerial Imagery

THURSDAY, MARCH 20

SYSTEMS FOR COOPERATIVE MONITORING

- Data Authentication & Encryption
- Introduction to System Design and Integration

COOPERATIVE MONITORING EXERCISE

- Objectives and Context
- Define General Strategy (separate teams)
- Develop Monitoring Plan (separate teams)
- Teams Present Positions
- Initial Negotiating Session

FRIDAY, MARCH 21

COOPERATIVE MONITORING EXERCISE (CONTINUED)

- Revise and Finalize Positions (separate teams)
- Final Negotiating Session
- Closing Summaries by Heads of Teams
- Discussion and Assessment of Exercise

CONCLUSION

- Review
- Open Discussion and Course Evaluation

REGISTRATION FORM

CMC TRAINING COURSE ON COOPERATIVE MONITORING

MARCH 17-21, 2003

Name _____

Title _____

Citizenship _____

Affiliation _____

Position _____

Mailing Address: _____

Phone _____

Fax _____

E-mail _____

Referred by _____

If you are unable to register on our website, please complete this registration form and fax it to:

Cooperative Monitoring Center
Attention: Training Course Coordinator
FAX: (505) 845-8700

Your reservation will be confirmed promptly. Additional information (agenda, hotel and other logistics) will be sent to you in advance of the course.



***TRAINING COURSE ON
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HOTEL INFORMATION

A block of rooms has been reserved for the CMC Training Course on Cooperative Monitoring at the:

Wyndham Hotel
2910 Yale SE, Albuquerque, NM 87106
www.wynatabq.com

Each participant is responsible for making reservations and paying hotel charges. Please contact the **Wyndham Hotel** at **(505) 843-7000** and refer to the block of rooms for the "TCCM".

Rates are:
\$65.00/single + tax
\$85.00/double + tax

Although it is not required, we prefer that participants stay at the same hotel. We will provide transportation to and from the class site and dinners from the Wyndham. The hotel has a free airport shuttle. The Wyndham hotel is located at the Albuquerque Airport. Please do not confuse it with The Wyndham Garden hotel, which is also in Albuquerque.

If you have any questions, or need any logistics assistance, please contact:

Martha Haines
Cooperative Monitoring Center
Office: (505) 284-6580
e-mail: mhaines@sandia.gov